

**Amendments to the Claims:**

Please cancel claims 31 and 33 as shown in the following listing of claims. This listing of claims will replace all prior versions and listings of claims in the application:

1-25. (cancelled)

26. (previously presented) A method of transmitting a first parallel data stream over a fiber optic channel, comprising:

converting the first parallel data stream into a plurality of second parallel data streams;  
modulating in parallel the second parallel data streams in a plurality of modulators,  
thereby producing a plurality of modulated signals;  
converting in parallel the plurality of modulated signals into a plurality of analog signals;  
mixing in parallel the analog modulated signals in a plurality of mixers;  
filtering in parallel the mixed analog signals in a plurality of band-pass filters;  
combining the plurality of filtered analog signals into a single analog signal;  
converting the single analog signal into an optical signal; and  
coupling the optical signal to the fiber optic channel.

27-28. (cancelled)

29. (previously presented) A method as in claim 26 wherein the converting the first parallel data stream into a plurality of second parallel data streams comprises accepting the first parallel data stream from an interface selected from the interfaces consisting of a ten gigabit media independent interface (XGMII) and a ten gigabit extended Attachment Unit Interface (XAUI).

30-39. (cancelled)